Plant and Equipment Expenditures: 1981

NEW plant and equipment expanditures planned by U.S. nonfarm business for 1981 total \$326.1 billion, 10.8 percent more than in 1980 (table I and chart 8). This estimate is based on the annual survey conducted by BEA in late November and December. Estimated 1980 spending, based on the survey conducted a month earlier, is \$294.8 billion, 8.8 percent more than in 1979.1

These data are not adjusted for price change. Survey respondents estimate an 11-percent price increase for capital goods purchased by them in 1980, and they expect a similar increase in 1981 (table 2). Since 1970, when BEA initiated its inquiry into capital goods price changes, the survey-based estimates have indicated larger actual price increases than did the implicit price deflator for the fixed nonresidential investment component of GNP in every year except 1975 and 1978. The reasons for the differences are not known. The deflator increased about 9 percent in

1. For estimates of prior years, see "Revised Betimates of New Plant and Equipment Expenditures in the United States, 1947-77," pages 42-49, in the October 1980 SURVEY OF CURRENT BUSI-HESS, and the December 1980 hour, page 44. The estimate of 1980 is based on actual expenditures in the first three quarters and plans for the fourth quarter. The plans were adjusted for systensatic biases by procedures described in the Octa1980, suggesting that real spending on plant and equipment in 1980 declined about one-half of 1 percent. If capital goods prices increase this year about the same as last year, an increase in real spending of about 11/2 percent for 1981 is implied.

The 1981 spending plans indicate that—as in 1980—manufacturing spending will increase at a sharper rate than nonmanufacturing. However, the increase in manufacturing is smaller than the increase last year, and that for nonmanufacturing is larger than last year.

Manufacturing industries plan to spend \$181.1 billion, 14 percent more than in 1980, when spending increased 161/2 percent. All major industry groups, except iron and steel, plan spending equal to or higher than last year's level. Of the four industries reporting large percentage increases, two did so last year also, and two did not. The largest increases are planned by electrical machinery, 291/2 percent, and petroleum, 27 percent; last year, electrical machinery increased 29 percent, and petroleum, 251/2 percent. Rubber 1 plans a 201/2 percent increase and nonelectrical machinery, 18 percent; last year, rubber reported an 18-percent :decline and nonelectrical machinery reported a 9¼-percent increase.

The "other nondurables," "other durables," aircraft, and food-beverage industries plan moderate increases, ranging from 10 to 17 percent. All of these industries reported larger increases last

Table 1.—Expenditures for New Flant and Equipment by U.S. Nonfarm Business, 1979-82. 🔿

	1979	T880 =	1981 4	1979-60	1968-61
	Estitions of dollars			Percent obenge	
Total senders business	270, 48	194, 29	356, 33	5,8	10,1
famplechning	88,68	114,50	111,12	16, 4	l iki
Dyrabie goeda Primary metals * Blast formore, steel works Nenferroug metals Taterleated metals Destricted metals Destricted metals Terrangoristics equipment * Number webdes Aircraft Stone, chey, and glass.	4.70 3.09 2.39 3.05	58, 25 7, 78 3, 57 3, 06 3, 03 9, 58 11, 52 17, 79 9, 02 5, 27 5, 00	68,00 7.70 2.17 2.14 12.16 12.60 12.60 7.50 5.60 5.65	14,0 14,0 27,0 28,5 28,5 28,5 28,5 28,5 28,5 28,5 28,5	13. -5. -5. -5. -6. -6. -7. -7. -7. -7. -7. -7. -7. -7. -7. -7
Nandurable goods. Food including beverage Teather. Paper. Chemicals. Petroleum. Rubber. Other nondurables 1	4.62 1.50 6.66	50,45 7.36 1.61 4.73 12.77 20,34 1.78 6.67	18, 13 R. 14 L. 175 LS. 177 25, 180 2, 15 7, 08	11.2 7.5 21.3 11.4 31.5 -33.0	11. 10. 4. 21. 20.
ionnanulaeturing	171,37	199,40	. 110.04	6.4	8,1
Mmlog.	11.25	13.60	16.04	12.0	18.
Transportation Bairond Air Other	12.25 4.00 4.01 4.31	11.50 4.17 3.97 3.54	以 4.66 4.66 4.66	-1.6 -1.0 -1.01	8.5 2.5 16.5
Poblic attilities. Electric. Gas not other.	\$3.60 27.65 8.31	34.60 27.44 7.18	37,64 29,46 8,18	1.9 7.8 13.8	14.
Trade and services. Communication and other	70.76 84.89	85.75 57.65	87.83 40.54	3.8 5.3	Ģ.

blases. Before adjustment, plans were \$181.0 bil-lion for manufacturing and \$185.6 billion for nonmanufacturing; the net effect of the adjustments was to raise manufacturing \$0.10 billion and to ruise nonmanufacturing \$4.46 billion. The bias adjustments, which are computed apparately for each reajor industry, were applied only when plans

The 1981 plans also were adjusted for systematic

deviated from actual spending in the same direction for 6 of the last 7 years. In these cases, the adjustment used was the medion deviation between actual and planned spending in the last 6 years.

2. Respondents were asked:

"What are your best estimates of average prist changes from 1979 to 1980 and expected price changes from 1980 to 1981;

"a. Prices paid by your nempany for new construction, machinery, and equipment.

"b. Prices of goods and/or services sold by your совараву."

Similar information was obtained in the corresponding annual surveys conducted since 1970. The companies' responses on capital goods and sales price changes were weighted by their reported capital expenditures and sales, respectively.

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2. Includes industries not shown separately.

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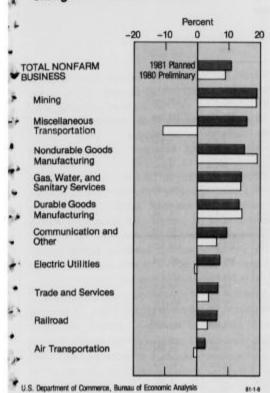
3. Camulats of humber, haratters, instruments, and miscellansous.

4. Camulats of opporal, tobacco, bother, and printing-publishing.

5. Includes construction; social services and facinherish aspanisations; and mestry, fisheries, and agricultural services. Planned capital expendibures reported by business in late November and December 1980, Plans have been adjusted

CHART 8

Changes in Business Investment



year than those planned for this year. Motor vehicles plans an 8½-percent increase, the same as last year's increase. Chemicals, textiles, nonferrous metals, fabricated metals, stone-clay-glass, and paper plan increases of less than 6 percent; these industries, except for fabricated metals and stone-clay-glass, reported larger increases last year than those planned for this year. Iron and steel plans an 8½-percent decline; last year, this industry's spending increased 9 percent.

Nonmanufacturing industries plan to spend \$195.0 billion, 81/2 percent more than in 1980. Last year spending inr creased 41/2-percent. Mining plans a 19-percent increase, about the same increase as last year. "Other transporta-* tion"-principally, motor and water carriers and oil pipelines-plans to increase spending 151/2 percent, following * * an 11-percent decline last year. Gas util-. ities plan a 14-percent increase, about the same increase as last year. The "communication and other," electric utility, trade and services, and air transportation groups plan increases of less * than 10 percent, compared with smaller , increases or declines in spending last year.

Table 2.—Change in Prices of Capital Goods Purchased

[Percent change from preceding year]

	Reported in NovDec. 1979 survey		Reported in NovDec. 1980 survey		
	Actual	Expected	Actual	Expected	
	1979	1980	1980	1981	
Total nonfarm business.	9,6	9,9	10,8	11,0	
Manufacturing	10.0	10.3	10, 6	10.7	
Durable goods	10. 2	10, 5	10, 4	10.1	
	9. 8	10, 1	10, 8	10.1	
Nonmanufacturing	9, 2	9, 5	11.0	11.	
Mining	12, 6	13, 1	13, 2	14.	
Transportation	12, 2	12, 4	11, 1	10.	
Public utilitiesOther 1	9, 3	9. 4	10, 5	10.	
	8, 2	8. 6	10, 9	11.	

Data for the latest survey includes trade; services; and "Communication and other" as defined in Table 1. Data for 1979
and expected 1980 excludes real estate; professional and social services; membership organizations; and forestry, fisheries,
and agricultural services.

Table 3.-Percent Change in Business Sales 1

	1980			1981	
	Expected as	reported in:	Actual	Expected as reported in: Jan. 1981	
	Jan. 1980	Mar. 1980			
Manufacturing	10,0	10,4	6, 2	13, 1	
Durable goods ¹ Primary metals. Pabricated metals. Electrical machinery Machinery, except electrical. Transportation equipment. Stone, clay, and glass.	9, 2 9, 9 9, 6 10, 8 11, 7 6, 2 6, 4	9.2 7.7 9.8 13.5 11.2 5.8 7.9	-1.3 -2.0 1.1 11.9 7.3 -8.7 2.0	13.5 11.5 13.7 14.5 14.4 15.0	
Nondurable goods 1	10, 9 9, 9 7, 0 10, 8 12, 7 14, 1 10, 4	11.7 11.1 7.9 9.9 12.6 17.2 10.1	11.6 7.1 4.1 7.2 8.5 32.5 -1.5	12. 6 10. 6 8. 3 12. 8 13. 4 17. 4 13. 1	
Trade	10.0	8.1	8,6	10, 1	
Wholesale	8.7 11.2	8.8 7.4	10, 9 6, 3	10, 7 9, 5	
Public utilities	16,0	16,7	21,8	14,8	

^{1.} Includes industries not shown separately,

Sources: Manufacturing data from Bureau of the Census, Current Industrial Reports, series M-3, for first 11 months of 1980, and BEA estimates for December 1980, Trade data are from Bureau of the Census, Current Business Reports, Monthly Wholessale Trade and Monthly Retail Trade, and BEA estimates for December 1980. Public utility figures are estimated by BEA on basis of data collected in the annual business investment surveys.

Sales and sales prices

Manufacturers expect their sales to increase 13 percent in 1981 (table 3). The actual increase in 1980 was 6 percent, compared with an expected increase of 10 percent. Trade firms expect an increase of 10 percent; last year, they had an 8½-percent increase, compared with an expected 10 percent. Public utilities expect a 15-percent increase in 1981; they had a 22-percent increase in 1980, compared with an expected 16 percent.

Manufacturers expect the prices of their goods and services sold to increase 10 percent this year, less than the 11½ percent they reported for last year; they had expected 8½ percent last year

Table 4.—Change in Prices of Products and Services Sold by Manufacturing and Utility Companies

[Percent change from preceding year]

	Reported in NovDec. 1979 Survey		Reported in NovDec. 1980 Survey	
	Ac- tual 1979	Ex- pected 1980	Ac- tual 1980	Ex- pected 1981
Manufacturing	9.2	8,5	11,7	10, 1
Durable goods Nondurable goods	7.5 11.1	7.8 9.3	8.9 14.5	9. 1 11. 1
Public utilities	12, 1	11, 2	18.3	14,6

(table 4). Public utilities expect a 14½percent increase, compared with 18½percent last year; they had expected 11 percent last year.